

PTO/SB/21 (08-03)

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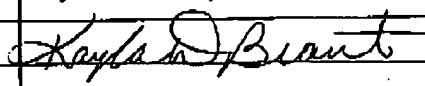
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/650,712	
	Filing Date	8/28/2000	
	First Named Inventor	Rico Mariani	
	Group Art Unit	2131	
	Examiner Name	SHIN HON CHEN	
Total Number of Pages in This Submission	28	Attorney Docket Number	MS1-0579US

ENCLOSURES (check all that apply)

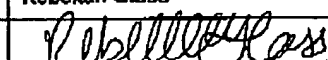
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name	Kayla D. Brant/Reg. No. 46576		
Signature			
Date	October 28, 2005		

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PTO/SB/17 (12-04)

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL**
For FY 2005☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 0.00**Complete if Known**

Application Number	09/650,712
Filing Date	8/29/2000
First Named Inventor	Rico Mariani
Examiner Name	SHIN HON CHEN
An Unit	2131
Attorney Docket No.	MS1 0579US

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FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims **Extra Claims** **Fee (\$)** **Fees Paid (\$)** **Multiple Dependent Claims**

_____ - 20 or HP = _____ x 50 = _____ **Fee (\$)** **Fees Paid (\$)**

HP = highest number of total claims paid for, if greater than 20

Indep. Claims **Extra Claims** **Fee (\$)** **Fees Paid (\$)**

_____ - 3 or HP = _____ x 200 = _____

HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fees Paid (\$)**

_____ - 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: Amended Appeal Brief

Fees Paid (\$)

0.00

SUBMITTED BY

Signature	<i>Kayla D. Brant</i>	Registration No. (Attorney/Agent)	48576	Telephone (509) 324-9256
Name (Print/Type)	Kayla D. Brant	Date	10/28/05	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No.09/650,712
Filing Date08/29/2000
Inventorship Mariani, Rico
Applicant Microsoft Corporation
Group Art Unit2131
Examiner Chen, Shin Hon
Attorney's Docket No. MS1-0579US
Title: Systems and Methods for Limiting Access to Potentially Dangerous Code

AMENDED APPEAL BRIEF

To: Board of Patent Appeals and Interferences
Alexandria, VA 22313-1450

From: Kayla D. Brant Tel. 509-324-9256 ext. 242
Fax 509-323-8979
Customer # 22801

Applicant hereby submits an amended appeal brief in response to the Notification of Non-Compliant Appeal Brief dated 9/30/05. Pursuant to 37 C.F.R. § 41.37 and 37 C.F.R. § 1.136(a), Applicant submitted the original appeal brief for application 09/650,712 within four months from the filing date of the Notice of Appeal.

The appeal brief has been amended such that the concise explanation of the subject matter defined in independent claim 1 refers to the specification by page and line number and to the drawings by reference characters.

In the Notification of Non-Compliant Appeal Brief, boxes 8 and 9 are also marked, indicating that the brief does not contain copies of evidence submitted under 37 CFR 1.130, 1.131, or 1.132 and that the brief does not contain copies of

1 the decisions rendered by a court or the Board in the proceeding identified in the
2 Related Appeals and Interferences section of the brief. Applicant is unaware of
3 any evidence submitted under 37 CFR 1.130, 1.131, or 1.132. Furthermore, there
4 are no proceedings identified in the Related Appeals and Interferences section of
5 the brief. Accordingly, Applicant believes that this amended appeal brief is fully
6 responsive to the issues raised in the Notification of Non-Compliant Appeal Brief
7 data 9/30/05.

8 Accordingly, Applicant appeals to the Board of Patent Appeals and
9 Interferences seeking review of the Examiner's rejections.
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TABLE OF CONTENTS**Appeal Brief Items****Page**

(1)	Real Party in Interest	4
(2)	Related Appeals and Interferences	4
(3)	Status of Claims	4
(4)	Status of Amendments	5
(5)	Summary of Claimed Subject Matter	5
(6)	Grounds of Rejection to be Reviewed on Appeal	7
(7)	Argument	8
(8)	Claims Appendix	21

1 **(1) Real Party in Interest**

2 The real party in interest is the Microsoft Corporation, the assignee of all
3 right and title to the subject invention.

4
5 **(2) Related Appeals and Interferences**

6 There are no related appeals or interferences.

7
8 **(3) Status of Claims**

9 Claims 1-10, 17-23, 27, 28, 30-32, and 34 are pending in this Application,
10 and are set forth in the Appendix of Appealed Claims on page 21. Claims 1-10,
11 17-23, 27, 28, 30-32, and 34 stand rejected. Claims 1-35 were originally filed in
12 the Application. Claims 11-16, 24-26, 29, 33, and 35 were cancelled, and claims
13 7-10, 17, 27, 30, and 32 were amended in an amendment filed July 29, 2004. No
14 claims have been allowed.

15 Claims 1-10, 17-23, 27, 28, 30-32, and 34 are subject to this appeal and
16 stand rejected as set forth in a Final Office Action dated January 11, 2005.
17 Specifically:

18 Claims 1, 2, 5, 7-10, 17, 18, and 20-23 are rejected under
19 35 U.S.C. § 102(e) as being clearly anticipated by U.S. Patent 6,499,109 issued to
20 Balasubramaniam et al. (hereinafter, "Bal") (1/11/2005 Office Action p.2).

21 Claim 3 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Bal
22 in view of U.S. Patent No. 6,499,105 issued to Yoshiura (hereinafter, "Yoshiura")
23 and further in view of U.S. Patent No. 6,058,482 issued to Liu (hereinafter, "Liu")
24 (1/11/2005 Office Action p.5).

25 Claim 4 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Bal

1 in view of Yoshiura (1/11/2005 Office Action p.6).

2 Claim 6 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Bal
3 in view of U.S. Patent No. 6,615,088 issued to Myer et al. (hereinafter, "Myer")
4 (1/11/2005 Office Action p.6).

5 Claims 19, 32, and 34 are rejected under 35 U.S.C. § 103(a) as being
6 unpatentable over Bal in view of Renaud (1/11/2005 Office Action p.8).

7 Claims 27, 28, 30, and 31 are rejected under 35 U.S.C. § 103(a) as being
8 unpatentable over Bal in view of Liu (1/11/2005 Office Action p.9).

9
10 **(4) Status of Amendments**

11 A rejection to claims 1-35 was issued on May 6, 2004 whereupon
12 Applicant responded to address the Examiner's rationale for the rejection and to
13 cancel claims 11-16, 24-26, 29, 33, and 35 and amend claim 7-10, 17, 27, 30,
14 and 32. The claim amendments were entered, and subsequently, a final rejection
15 was issued on January 11, 2005. A Notice of Appeal was filed on
16 March 18, 2005. No amendments have been filed subsequent to the Examiner's
17 final rejection dated January 11, 2005.

18
19 **(5) Summary of Claimed Subject Matter**

20 Following is a concise explanation of each independent claim 1, 7, 17, 27,
21 and 32 involved in the Appeal which includes specification references and
22 exemplary drawing reference characters. As explained, the independent claims are
23 not limited solely to the elements identified by the reference characters.

24

25

1 The claimed subject matter is directed to authenticating a digital signature
2 associated with a web page prior to executing a least a portion of the web page.
3 Specifically:

4
5 Claim 1 includes associating a digital signature (226) with a web
6 page (212) (*Application, pg. 12, lines 13-18; Figure 3, block 306.*); and delivering
7 the web page (212) to an electronic device (204) (*Application, pg. 12, lines 2-4;*
8 *Figure 3, block 306.*) capable of authenticating the digital signature and executing
9 at least a portion of the web page after the digital signature is authenticated
10 (*Application, pg. 12, lines 8-12.*).

11
12 Claim 7 describes receiving a web page (212') having a digital
13 signature (226') that can be used to identify a source of the web page.
14 (*Application, pg. 14, lines 11-12; Figure 3, block 308.*) The web page (212')
15 contains executable script (216') that, when executed invokes a control
16 object (218'). (*Application, pg. 12, lines 5-7.*) The web page is displayed and the
17 control object invoked only if the source of the web page is determined to be
18 authentic based on the digital signature associated with the web page.
19 (*Application, pg. 15, lines 14-19.*)

20
21 Claim 17 describes a computer system (204) that includes a web
22 browser (230) for accessing a web page (212') that has an associated digital
23 signature (226'), a processor (227) configured to execute script (216') that may be
24 contained in the web page (212'), an executable control object (218') that may be
25 invoked by the script in the web page, and a confirmation module (220')

1 configured to authenticate the digital signature to determine, based on authenticity
2 of the digital signature, whether the control object should be invoked.
3 (*Application, pg. 13, lines 8-18; Figure 2, Client Computer 204.*)

4
5 Claim 27 describes a web browser (230) that determines if a received web
6 page (212') contains instructions to invoke a control object (218') and determines
7 if the web page has an associated digital signature (226'). If the web page has an
8 associated digital signature, the browser authenticates the web page using the
9 digital signature, and invokes the control object if the source of the web page is
10 authenticated. (*Application, pg. 14, line 11-pg. 15, line 19.*)

11
12 Claim 32 describes a control object (218') that authenticates a web
13 page (212') that invokes the control object. The authentication is performed based
14 on a digital signature (226') associated with the web page. A data-handling task is
15 performed on the computer if the web page is determined to be authentic.
16 (*Application, pg. 13, lines 1-7.*)

17
18 **(6) Grounds of Rejection to be Reviewed on Appeal**

19 Claims 1, 2, 5, 7-10, 17, 18, and 20-23 are rejected under
20 35 U.S.C. § 102(e) as being anticipated by U.S. Patent 6,499,109 issued to
21 Balasubramaniam et al. (hereinafter, "Bal") (*1/11/2005 Office Action p.2*).

22 Claim 3 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Bal
23 in view of U.S. Patent No. 6,499,105 issued to Yoshiura (hereinafter, "Yoshiura")
24 and further in view of U.S. Patent No. 6,058,482 issued to Liu (hereinafter, "Liu")
25 (*1/11/2005 Office Action p.5*).

1 Claim 4 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Bal
2 in view of Yoshiura (1/11/2005 Office Action p.6).

3 Claim 6 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Bal
4 in view of U.S. Patent No. 6,615,088 issued to Myer et al. (hereinafter, "Myer")
5 (1/11/2005 Office Action p.6).

6 Claims 19, 32, and 34 are rejected under 35 U.S.C. § 103(a) as being
7 unpatentable over Bal in view of Renaud (1/11/2005 Office Action p.8).

8 Claims 27, 28, 30, and 31 are rejected under 35 U.S.C. § 103(a) as being
9 unpatentable over Bal in view of Liu (1/11/2005 Office Action p.9).

10
11 **(7) Argument**

12 Claims 1, 2, 5, 7-10, 17, 18, and 20-23 are not anticipated by Bal.

13
14 Claims 1, 2, and 5

15 Bal describes verifying the source of software downloaded from a remote
16 site to a client computer over a computer network before the software can be
17 executed on the client computer. (Bal, Abstract.) Specifically, Bal describes a
18 computer-executable program code that first determines the URL to which a
19 browser running on the client computer is pointed and enables the downloaded
20 software program only if the URL to which the browser is pointed is an authorized
21 URL. (Bal, Summary.) Bal is akin to a scenario Applicant describes in the
22 Background section that is improved with the claimed technique.
23
24
25

1 Independent claim 1 recites:

2
3 A method, comprising:

4 associating a digital signature with a web page; and

5 delivering the web page to an electronic device capable of
6 authenticating the digital signature and executing at least a portion of
7 the web page after the digital signature is authenticated.
8

9
10 In contrast to the method of claim 1, Bal describes examining a URL to
11 which a browser is pointed to determine whether or not to allow execution of
12 downloaded software. Bal does not describe “associating a *digital signature with*
13 *a web page*,” nor does Bal describe “delivering the web page to an electronic
14 device capable of *authenticating the digital signature* and executing at least a
15 portion of the web page after the digital signature is authenticated,” as claimed.
16 The Office cites Bal, column 7, lines 32-38 as describing “associating a digital
17 signature with a web page.” (1/11/2005 Office Action p.2) However, the cited
18 portion of Bal (column 7, lines 32-38) states, “initiating the downloading of a web
19 page on the browser window on the client computer based on the URL, wherein
20 the web page has associated therewith a control software program with a
21 corresponding digital signature; verifying the control software program using the
22 digital signature.” This portion of Bal clearly states that a digital signature is
23 associated with the control software program – *not* with the web page, as found in
24
25

1 claim 1. Furthermore, Bal, claim 1, of which the cited language is a portion, goes
2 on to recite, "querying the browser program to determine the URL to which the
3 browser program is pointed; determining whether the URL to which the browser
4 program is pointed is authorized; executing the control software program if it is
5 determined that *the URL to which the browser program is pointed* is authorized."

6 Bal describes executing downloaded software based on authentication of a URL to
7 which a browser program is pointed. Bal does not describe executing at least a
8 portion of the web page after the digital signature is authenticated, where the
9 digital signature is associated with the web page, as recited in claim 1.
10

11 Accordingly, claim 1 is allowable over Bal.

12 Claims 2 and 5 are allowable by virtue of their dependency on claim 1.

13 Claims 7-10

14 Independent claim 7 recites:

15
16 A method, comprising:

17 receiving a web page from a server, the web page containing
18 executable script that, when executed, invokes a control object, the
19 web page having a digital signature that can be used to identify a
20 source of the web page;

21 determining whether the source of the web page is authentic
22 via the digital signature; and
23 in an event that the source of the web page is authentic,
24 displaying the web page and invoking the control object
25

1 In contrast to claim 7, Bal describes verifying a URL associated with a web
2 page, and executing a control software program only after verification of the URL.
3 (Bal, column 7, lines 26-51 – claim 1.) As stated above with reference to claim 1,
4 Bal does not describe “a web page having a digital signature that can be used to
5 identify a source of the web page,” as claimed. Accordingly, claim 7 is allowable
6 over Bal.

7 Claims 8-10 are allowable by virtue of their dependency on claim 7.

8
9 Claims 17, 18, and 20-23

10 Independent claim 17 recites:

11
12 A system, comprising:

13 a web browser configured to access a web page having a
14 digital signature;

15 a processor configured to execute script contained in the web
16 page;

17 an executable control object that may be invoked by the
18 script in the web page and is executable on the processor; and

19 a confirmation module configured to authenticate the digital
20 signature to determine based on authenticity of the digital
21 signature, whether the control object should be invoked.

22
23 In contrast to claim 7, Bal describes authenticating a digital signature
24 associated with a control software program and verifying a URL associated with a
25

1 web page, to determine whether to execute the control software program. (Bal,
2 column 7, lines 26-51 – claim 1.) As stated above with reference to claim 1, Bal
3 does not describe “a web page having a digital signature,” as claimed.
4 Furthermore, Bal does not describe authenticating the digital signature associated
5 with the web page to determine whether the control object should be invoked.
6 Rather, Bal describes verifying a URL associated with the web page to determine
7 whether a control object should be invoked. Accordingly, claim 17 is allowable
8 over Bal.
9

10 Claims 18 and 20-23 are allowable by virtue of their dependency on
11 claim 17.
12

13 Claim 3 is not taught or suggested by the combination of Bal, Yoshiura,
14 and Liu.
15

16 Claim 3
17

18 Dependent claim 3 recites:
19

20 The method as recited in claim 1, further comprising:
21 determining if the web page includes code to invoke a control
22 object; and
23 deriving the digital signature and associating the digital
24 signature with the web page only if the web page includes code to
25 invoke a control object.

1 As described above, Bal describes determining a URL to which a browser
2 running on a client computer is pointed and enabling a downloaded software
3 program only if the URL to which the browser is pointed is an authorized URL.
4 (Bal, Summary.) Bal does not describe "associating a digital signature with a web
5 page," as recited in claim 1, from which claim 3 depends. Furthermore, Bal does
6 not describe, nor does the Office contend that Bal describes, "determining if the
7 web page includes code to invoke a control object; and deriving the digital
8 signature and associating the digital signature with the web page only if the web
9 page includes code to invoke a control object," as recited in claim 3.

10 Yoshiura describes a method for identifying a purchaser who purchased
11 content from which an illegal copy was produced. (Yoshiura, Abstract.) Liu
12 describes a server process for identifying a particular keyword in a web page, and
13 then modifying the web page to enable secure download of executable code
14 associated with the web page. Both Yoshiura and Liu fail to add any teaching to
15 Bal regarding the features recited in claim 1. Namely, the combination of Bal,
16 Yoshiura, and Liu fails to teach "associating a *digital signature with a web page*"
17 and "executing at least a portion of the web page after *the digital signature* is
18 authenticated," as recited in claim 1.

19 Additionally, there is no suggestion to combine the teachings of Bal and
20 Yoshiura. Yoshiura describes a method for identifying a purchaser who purchased
21 content from which an illegal copy was produced. (Yoshiura, Abstract.) There is
22 nothing in Yoshiura to suggest that identifying a purchaser of content has anything
23 to do with authenticating access to executable code that may be invoked from a
24 web page.
25

1 Furthermore, while Liu may disclose determining whether or not a web
2 page includes code to invoke a control object, Liu does not teach or suggest using
3 that information to determine whether or not to generate and associate a digital
4 signature with the web page. Rather, Liu discloses using that information to
5 determine whether or not to modify the web page to enable secure download of
6 specific portions of executable code associated with the web page over a network.
7 Liu describes processing that is performed in association with a web page that
8 includes executable code that will need to be downloaded in order to be run. Liu
9 does not suggest performing such processing in association with a web page that
10 includes code that invokes a control object that may have already been
11 downloaded. Accordingly, claim 3 is allowable over Bal in view of Yoshiura and
12 further in view of Liu.

13
14 *Claim 4 is not taught or suggested by the combination of Bal and Yoshiura.*

15
16 *Claim 4*

17 Dependent claim 4 recites:

18
19 The method as recited in claim 1, wherein the web page
20 includes a confirmation module that is used by the electronic device
21 to authenticate the digital signature.

22
23 As described above, the combination of Bal and Yoshiura fails to teach the
24 method as recited in claim 1. Specifically, the cited combination does not teach
25 "associating a *digital signature with a web page*," and "delivering the web page to

1 an electronic device capable of authenticating the *digital signature* and executing
2 at least a portion of the web page after *the digital signature* is authenticated,” as
3 recited in claim 1. Furthermore, as noted previously, with respect to claim 3, there
4 is no motivation provided in either reference that would suggest combining the
5 teachings of Bal and Yoshiura. Accordingly, claim 4 is allowable over Bal in
6 view of Yoshiura.

7
8 Claim 6 is not taught or suggested by the combination of Bal and Myer.

9
10 Claim 6

11 Dependent claim 6 recites:

12
13 The method as recited in claim 1, wherein the web page is
14 generated in an active server page (ASP) environment.

15
16 Myer describes a system that includes a master controller and one or more
17 devices (e.g., a TV, a VCR, a CD changer, etc.) such that the master controller can
18 be used to control the devices. As described above, Bal does not teach or suggest
19 the features recited in claim 1. Specifically, Bal does not teach or suggest
20 “associating a digital signature with a web page.” Myer fails to add any teaching
21 with respect to claim 1. Additionally, there is no motivation in either reference
22 that would suggest combining the teachings of Bal and Myer. Therefore, and by
23 virtue of its dependence on claim 1, claim 6 is allowable over Bal in view of Myer.
24
25

1 Claims 19, 32, and 34 are not taught or suggested by the combination of
2 Bal and Renaud.

3
4 Claim 19

5 Dependent claim 19 recites:

6
7 The system as recited in claim 17, wherein the confirmation
8 module is included in the control object.

9
10 As described above, Bal does not disclose, teach, or suggest "a *web page*
11 having a digital signature", as recited in claim 17, from which claim 19 depends.
12 Rather, Bal discloses a *control object* having a digital signature, and examining a
13 URL associated with a web page to determine whether or not the web page is
14 authorized to invoke the control object. Bal does not disclose, teach, or suggest "a
15 web page having a digital signature; an executable control object that may be
16 invoked by [a] script in the web page; and a confirmation module configured to
17 authenticate the digital signature to determine based on the authenticity of the
18 digital signature, whether the control object should be invoked," as recited in
19 independent claim 17.
20

21 Furthermore, Renaud discloses methods, apparatuses, and products that
22 reduce the computational demands placed on both source user computer systems
23 and receiving user computer systems by requiring the implementation and the
24 verification of only a single digital signature for an arbitrary number of data files.
25

1 (Renaud, column 4, line 67 – column 5, line 4.) Renaud does not disclose, teach,
2 or suggest a confirmation module included in a control object where the
3 confirmation module is configured to authenticate a digital signature that is
4 associated with a web page. Accordingly, the combination of Bal and Renaud
5 does not teach or suggest the features of independent claim 17, from which
6 claim 19 depends.

7 The Office cites Renaud column 4, lines 15-19 as disclosing “wherein the
8 confirmation module is included in the control object,” as recited in claim 19. The
9 cited portion of Renaud states:
10

11
12 “In another embodiment, computer-readable program code
13 includes code for running the applet and code for determining
14 whether the applet performs an action that triggers a security check.
15 In another embodiment, code is included for use in establishing a
16 secure connection with a remote site.”
17

18
19 The cited text in no way teaches or suggests a confirmation module
20 included in a control object, as claimed. Accordingly, and by virtue of its
21 dependence on claim 17, claim 19 is therefore allowable over Bal in view of
22 Renaud.
23
24
25

1 Claims 32 and 34

2 Independent claim 32 recites:

3
4 A control object stored in a computer-readable medium,
5 comprising computer-executable instructions that, when executed on
6 a computer, perform the following:

7 authenticating a web page that invokes the control object,
8 wherein the authenticating is performed based on a digital signature
9 associated with the web page; and

10 executing a data-handling task on the computer if the web
11 page is determined to be authentic.

12
13 Claim 32 recites “a digital signature associated with the web page.” As
14 discussed above with reference to claim 3, neither Bal nor Renaud disclose, teach,
15 or suggest a web page having an associated digital signature, nor authenticating a
16 web page based on a digital signature that is associated with the web page.
17 Accordingly, claim 32 is allowable over Bal in view of Renaud.

18 Claim 34 is allowable by virtue of its dependence on claim 32.
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1 Claims 27, 28, 30, and 31 are not taught or suggested by the combination
2 of Bal and Liu.

3
4 Claims 27, 28, 30, and 31

5 Independent claim 27 recites:

6
7 A web browser contained on a computer-readable medium of
8 a client computer, comprising computer-executable instructions that,
9 when executed by the client computer, perform the following:

10 determining if a web page contains instructions to invoke a
11 control object;

12 determining if the web page has an associated digital
13 signature;

14 in an event that the web page has an associated digital
15 signature, authenticating the web page using the digital signature;
16 and

17 invoking the control object if the source of the web page is
18 authenticated.

19
20 Bal does not teach or suggest "determining if the web page has an
21 associated digital signature," nor does Bal teach or suggest, "in an event that the
22 web page has an associated digital signature, authenticating the web page using
23 the digital signature." Liu does not add to the teaching of Bal regarding the cited
24 claim features, nor does the Office claim that Liu adds to the teaching of Bal
25

1 regarding the cited claim features. Rather, the Office merely refers to Liu as
2 teaching "determining if the web page contains instructions to invoke a control
3 object." (1/11/05 Office Action, p. 10.) Accordingly, claim 27 is allowable over
4 Bal in view of Liu.

5 Claims 28, 30, and 31 are allowable by virtue of their dependence on
6 claim 27.

7
8
9 **Conclusion**

10 The Office's basis and supporting rationale for the §102 rejection of claims
11 1, 2, 5, 7-10, 17, 18, and 20-23 is not supported by the express teachings of Bal.
12 The Office's basis and supporting rationale for the §103 rejections of claims 3, 4,
13 6, 19, 32, 34, 27, 28, 30, and 31 are not supported by the cited combinations of
14 Bal, Yoshiura, Liu, Myer, and Renaud. Applicant respectfully requests that the
15 §102 and §103 rejections be overturned and that pending claims 1-10, 17-23 27,
16 28, 30-32, and 34 be allowed to issue.

17
18 Respectfully Submitted,

19
20
21 Dated: 10/28/05

22 By: Kayla D. Brant
23 Kayla D. Brant
24 Reg. No. 46,576
25 (509) 324-9256 x 242

1 **(9) Claim Appendix**

2
3 1. method, comprising:
4 associating a digital signature with a web page; and
5 delivering the web page to an electronic device capable of authenticating
6 the digital signature and executing at least a portion of the web page after the
7 digital signature is authenticated.

8
9 2. The method as recited in claim 1, wherein the associating further
10 comprises attaching the digital signature to the web page.

11
12 3. The method as recited in claim 1, further comprising:
13 determining if the web page includes code to invoke a control object; and
14 deriving the digital signature and associating the digital signature with the
15 web page only if the web page includes code to invoke a control object.

16
17 4. The method as recited in claim 1, wherein the web page includes a
18 confirmation module that is used by the electronic device to authenticate the
19 digital signature.

20
21 5. The method as recited in claim 1, wherein the web page contains
22 script that, when executed, invokes executable code that is executed on the
23 electronic device executing the web page.

1 6. The method as recited in claim 1, wherein the web page is generated
2 in an active server page (ASP) environment.

3
4 7. A method, comprising:
5 receiving a web page from a server, the web page containing executable
6 script that, when executed, invokes a control object, the web page having a digital
7 signature that can be used to identify a source of the web page;
8 determining whether the source of the web page is authentic via the digital
9 signature; and
10 in an event that the source of the web page is authentic, displaying the web
11 page and invoking the control object.

12
13 8. The method as recited in claim 7, further comprising:
14 in an event that the source of the web page is not authentic, refusing to
15 invoke the control object.

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18 9. The method as recited in claim 7, wherein the determining further
19 comprises identifying the source of the web page.
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1 10. The method as recited in claim 7, further comprising:
2 designating one or more authorized sources from which a web page that
3 invokes a control object may be received; and
4 executing script contained in the web page only if the determining indicates
5 that the web page was received from one of the one or more authorized sources.

6
7 17. A system, comprising:
8 a web browser configured to access a web page having a digital signature;
9 a processor configured to execute script contained in the web page;
10 an executable control object that may be invoked by the script in the web
11 page and is executable on the processor; and
12 a confirmation module configured to authenticate the digital signature to
13 determine based on authenticity of the digital signature, whether the control object
14 should be invoked.

15
16 18. The system as recited in claim 17, wherein the confirmation module
17 is called by the control object.

18
19 19. The system as recited in claim 17, wherein the confirmation module
20 is included in the control object.

21
22 20. The system as recited in claim 17, wherein the confirmation module
23 is included in the web browser.

24

25

1 21. The system as recited in claim 17, wherein the confirmation module
2 is further configured to determine if the web page comes from a source that is
3 authorized to invoke the control object and the control object is invoked only if the
4 source of the web page is authorized to invoke the control object.

5
6 22. The system as recited in claim 17, wherein the confirmation module
7 is called by the web page prior to the web page invoking the control object.

8
9 23. The system as recited in claim 17, wherein the digital signature
10 module is not invoked if the web page does not have a digital signature.

11
12 27. A web browser contained on a computer-readable medium of a
13 client computer, comprising computer-executable instructions that, when executed
14 by the client computer, perform the following:

15 determining if a web page contains instructions to invoke a control object;

16 determining if the web page has an associated digital signature;

17 in an event that the web page has an associated digital signature,
18 authenticating the web page using the digital signature; and

19 invoking the control object if the source of the web page is authenticated.
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1 28. The web browser as recited in claim 27, further comprising:
2 determining if the web page contains executable script to invoke a control
3 object; and

4 wherein the authenticating the web page further comprises authenticating
5 the web page only if the web page contains executable script to invoke a control
6 object.

7
8 30. The web browser as recited in claim 27, further comprising in an
9 event that the web page does not have an associated digital signature, refusing to
10 invoke the control object.

11
12 31. The web browser as recited in claim 27, further comprising
13 instructions to determine if an authenticated web page comes from a source that is
14 authorized to invoke the control object.

15
16 32. A control object stored in a computer-readable medium, comprising
17 computer-executable instructions that, when executed on a computer, perform the
18 following:

19 authenticating a web page that invokes the control object, wherein the
20 authenticating is performed based on a digital signature associated with the web
21 page; and

22 executing a data-handling task on the computer if the web page is
23 determined to be authentic.

24

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1 34. The control object as recited in claim 32, further comprising
2 instructions to determine if a source of the web page is authorized to invoke the
3 data-handling task prior to executing the data-handling task.
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